

CLAIMS

1. A formwork structure located on supporting surface, the structure having a side form perimeter including side form members, the perimeter defining a curable non-solid material retaining area; the formwork including side form
5 support members that support the side form members, the side form support members being held in a fixed position relative to the supporting surface by a surface-to-member releasable securing device fixed to the supporting surface and which engages the side form member, characterised in that the side form member is adapted to permit another side form member to be secured thereto
10 by one or more releasable inter-member securing devices, which are separate to the surface-to-member securing device.
2. The formwork of claim 1 wherein additional support members are secured on top of previously secured support members.
3. The formwork of claim 2 wherein each additional support member is
15 secured by one or more separate inter-member securing devices.
4. A formwork structure located on supporting surface, the structure having a side form perimeter including side form members, the perimeter defining a curable non-solid material retaining area; the formwork including side form support members that support the side form members and being held in a fixed
20 position relative to the supporting surface, the side form support members having a top support surface capable of supporting another side form support member thereon and a bottom resting surface for contacting the supporting surface of the formwork or another member's top support surface, characterised in that the side form support member is secured into a fixed position by using a
25 securing device which engages to an attachment surface of the member which is a separate and distinct surface to the top support surface of the member.

5. A formwork structure of claim 4 wherein the securing means includes surface-to-member securing device for fixing to an underlying surface and being capable of releasibly securing a member.
6. A formwork structure of claim 4 or 5 wherein the securing means includes
5 inter-member securing device for secured member capable of securing another member to the secured member.
7. A surface-to-member securing device for use with formwork structures having a base plate for securing to an underlying supporting surface, a clamping element joined to the plate and capable of releasibly securing a side form
10 support member, wherein the clamping element includes at least one arm that is capable of engaging an attachment surface of the member which is a separate and distinct surface to the top support surface of the member.
8. The device of claim 7 wherein the surface-to-member securing device releasibly engages the side form member.
9. The device of claim 8 wherein the side form support members support
15 the side form members by having the end of one or more side form support members engage a portion of the side of a side form member.
10. The device of claim 9 wherein the device includes a level adjustment means for modifying the level of a side form support member secured to the
20 device.
11. The device of claim 10 wherein the base plate is capable of being secured to an underlying surface at a securing point and the level adjustment means is connected to the base plate and includes at least one leg having an adjustable length capable of contacting the underlying surface, such that
25 adjusting the length of the leg will pivot the base plate about the securing point

and change the level of the base plate and side form support members attached thereto.

12. The device of claim 10 wherein the base plate is capable of being secured to an underlying surface at a securing point and the level adjustment
5 means is connected to the base plate and includes at least a side form support member contact device that is capable of being moved relative to the base plate and thereby change the level of side form support member relative to the base plate.

13. A side-form support member capable of engaging supporting a side-form
10 that constitutes part of a formwork structure for retaining curable non-solid material, the member having a top support surface capable of supporting another member, a bottom resting surface for contacting and being supported by an underlying top support surface of a further member, and one or more attachment surfaces separate to and distinct from the top and bottom surfaces,
15 wherein the attachment surfaces inter-member securing devices engage therewith and secure the member to adjacent member by attachment surfaces of the adjacent member.

14. The member of claim 13 having at least one channel having internal surfaces, that in part defines an attachment surface of the member.

20 15. The member of claim 14 having two opposed sides that extend from the top and bottom surfaces, each side having two channels therein, an upper channel located near the top surface and a lower channel located near the bottom surface.

16. The member of claim 15 wherein the member has a substantially "I"
25 shape.

17. A member of claim 13 formed by extrusion.
18. A member of any one of claims 13 to 17 wherein the support members and side-form members are the same in cross-section.
19. A side form member used in defining a perimeter for retaining curable
5 non-solid material, the member having a top support surface capable of supporting another member, a bottom resting surface for contacting and being supported by an underlying support surface, the member having two opposed sides that extend from the top and bottom surfaces, a support side capable of being supported by one or more side-form support members, and a retaining
10 side, wherein the retaining side is capable of having side-moulds affixed thereto.
20. The side form of claim 19 wherein the retaining side includes two channels therein, an upper channel located near the top surface and a lower channel located near the bottom surface by which a side-mould may be affixed thereto.
- 15 21. The side form of claim 20 wherein the support side has two channels therein, an upper channel located near the top surface and a lower channel located near the bottom surface, the channels facilitating the attachment of one or more side form support members to the side-form members.
22. A formwork structure that uses side-form members of claim 19.
- 20 23. A formwork structure that uses side form support members of claim 13.
24. A formwork structure for use in the manufacture of a multiple layer stack of construction panels and structures, preferably concrete construction panels, the structure having a plurality of side form support members of claim 13.

25. The formwork structure of claim 24 that includes a plurality workmate surface-to-member securing devices and a plurality of member-to-member securing devices.

26. A method of constructing formwork having side form members and side
5 form support members wherein adjacent support members are secured together by using individual clamps between adjacent support members.